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Serial No. .09/916,566

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CLAIM AMENDMENTS

1. - 4. (Canceled)

5. (Previously Presented) A method of depositing material on a substrate, comprising the steps

TROY, MICHIGAN 46007-7021 heating the substrate with a high-power, rapid-response diode laser to create a melt pool in a SUITE 330, P.O. BOX 7021 laser interaction zone;

feeding material into the melt pool to create a deposit having a physical dimension; monitoring the laser interaction zone to generate an optical signal indicative of the physical dimension; and

controlling the deposition using the optical signal.

- 6. (Previously Presented) The method of claim 5, wherein the deposition is controlled by modulating the laser.
- 7. (Previously Presented) The method of claim 6, wherein the modulation of the laser is in the kilohertz range.
- 8. (Previously Presented) The method of claim 6, wherein the modulation of the laser is up to 20 kHz.